

WELD REINFORCEMENT TABLE
DOE Nuclear Applications**Vessels, Pumps, and Valves**

Thickness of Base Material	Maximum Reinforcement, in.
Up to 1 in.	$\frac{3}{32}$
Over 1 in. to 2 in.	$\frac{1}{8}$
Over 2 in. to 3 in.	$\frac{5}{32}$
Over 3 in. to 4 in.	$\frac{7}{32}$
Over 4 in. to 5 in.	$\frac{1}{4}$
Over 5 in.	$\frac{5}{16}$

Piping

Thickness of Base Material	Maximum Reinforcement, in.	
	Column 1	Column 2
Up to $\frac{1}{8}$ in.	$\frac{3}{32}$	$\frac{3}{32}$
Over $\frac{1}{8}$ in. to $\frac{3}{16}$ in.	$\frac{1}{8}$	$\frac{3}{32}$
Over $\frac{3}{16}$ in. to $\frac{1}{2}$ in.	$\frac{5}{32}$	$\frac{1}{8}$
Over $\frac{1}{2}$ in. to 1 in.	$\frac{3}{16}$	$\frac{5}{32}$
Over 1 in. to 2 in.	$\frac{1}{4}$	$\frac{5}{32}$
Over 2 in.	The larger of $\frac{1}{8}$ x the width of the weld or $\frac{1}{4}$ in.	$\frac{5}{32}$

For double-welded butt joints, the limitations on the reinforcement given in Column 1 of the above table shall apply separately to both inside and outside surfaces of the joint. For single-welded butt joints, the reinforcement given in Column 2 shall apply to the inside surface and the reinforcement given in Column 1 shall apply to the outer surface. The reinforcement shall be determined from the higher of the abutting surfaces involved.

Structural Supports

Thickness of Base Material	Maximum Reinforcement, in.
Up to 1 in.	$\frac{3}{32}$
Over 1 in. to 2 in.	$\frac{1}{8}$
Over 2 in. to 3 in.	$\frac{5}{32}$
Over 3 in. to 4 in.	$\frac{7}{32}$
Over 4 in. to 5 in.	$\frac{1}{4}$
Over 5 in.	$\frac{5}{16}$

ALIGNMENT TOLERANCE TABLE
DOE Nuclear Applications**Piping and Components**

Thickness of Base Material	Longitudinal Butt Weld	Circumferential Butt Weld
Up to ½ in.	¼ thickness	¼ thickness
Over ½ in. to ¾ in.	⅛ in.	¼ thickness
Over ¾ in. to 1 ½ in.	⅛ in.	⅜ in.
Over 1 ½ in. to 2 in.	⅛ in.	⅛ thickness
Over 2 in.	Lesser of ⅛ thickness or ¾ in.	Lesser of ⅛ thickness or ¾ in.

Structural Supports

Thickness of Base Material	Maximum Offset
Up to ¾ in.	¼ thickness
Over ¾ in. to 1 ½ in.	⅜ in.
Over 1 ½ in. to 2 in.	⅛ thickness
Over 2 in.	Lesser of ⅛ thickness or ¾ in.

Note: The thickness of the base material is the nominal thickness of the thinner section at the weld joint.